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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/909,277	07/19/2001	Glenn W. Gale	BUR92000136US1	2205
7590 01/20/2004			EXAMINER	
Burton A. Amernick Connolly Bove Lodge & Hutz LLP			WINTER, GENTLE E	
P.O. Box 19088 Washington, DC 20036-3425			ART UNIT	PAPER NUMBER
			1746	,

DATE MAILED: 01/20/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)	
		09/909,277	GALE ET AL.	
	Office Action Summary	Examiner	Art Unit	_
		Gentle E. Winter	1746	
Period fo	The MAILING DATE of this communication	on appears on the cover sheet wit	the correspondence address	
THE   - Exte after   - If the   - If NO   - Failu   - Any	ORTENED STATUTORY PERIOD FOR IMAILING DATE OF THIS COMMUNICAT nsions of time may be available under the provisions of 37 is SIX (6) MONTHS from the malling date of this communicate period for reply specified above is less than thirty (30) day opened for reply specified above, the maximum statutory me to reply within the set or extended period for reply will, be reply received by the Office later than three months after the departent term adjustment. See 37 CFR 1.704(b).	ION.  CFR 1.136(a). In no event, however, may a re ition.  s, a reply within the statutory minimum of thirty period will apply and will expire SIX (6) MONT we statute cause the application to become ABA.	oly be timely filed (30) days will be considered timely. Hand the mailing date of this communication NDONED (35 U.S.C. & 133).	n.
1)⊠	Responsive to communication(s) filed or	21 November 2003.		
2a) <u></u> ☐	This action is <b>FINAL</b> . 2b)	This action is non-final.		
3)	Since this application is in condition for a closed in accordance with the practice u	allowance except for formal matte nder <i>Ex part</i> e Q <i>uayle</i> , 1935 C.D.	rs, prosecution as to the merits in 11, 453 O.G. 213.	s
Disposit	ion of Claims		•	
5)□ 6)⊠ 7)□	Claim(s) 1-34 is/are pending in the appli 4a) Of the above claim(s) is/are w Claim(s) is/are allowed. Claim(s) 1-34 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction	ithdrawn from consideration.		
	tion Papers			
10)	The specification is objected to by the ExThe drawing(s) filed on is/are: a)[ Applicant may not request that any objection Replacement drawing sheet(s) including the The oath or declaration is objected to by	☐ accepted or b)☐ objected to be to the drawing(s) be held in abeyan correction is required if the drawing	ce. See 37 CFR 1.85(a). s) is objected to. See 37 CFR 1.121(	(d).
	under 35 U.S.C. §§ 119 and 120			
	Acknowledgment is made of a claim for D All b) Some * c) None of:  1. Certified copies of the priority doc  2. Certified copies of the priority doc  3. Copies of the certified copies of the priority doc  Acknowledgment is made of a claim for d since a specific reference was included in 37 CFR 1.78.  a) The translation of the foreign langual Acknowledgment is made of a claim for d reference was included in the first sentence.	cuments have been received. cuments have been received in A me priority documents have been Bureau (PCT Rule 17.2(a)). or a list of the certified copies not lomestic priority under 35 U.S.C. the first sentence of the specific age provisional application has b	pplication No received in this National Stage received. § 119(e) (to a provisional applica ation or in an Application Data Stage een received. §§ 120 and/or 121 since a specif	neet. fic
Attachme	ent(s)			
2) 🗌 Not	tice of References Cited (PTO-892) tice of Draftsperson's Patent Drawing Review (PTO- promation Disclosure Statement(s) (PTO-1449) Paper	.948) 5) Notice of I	Summary (PTO-413) Paper No(s) nformal Patent Application (PTO-152)	

U.S. Patent and Trademark Office PTOL-326 (Rev. 11-03)

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#### DETAILED ACTION

### Response to Amendment and Remarks

- 1. Applicant has added the limitation "applying an intact and contiguous film". The prior art of record does not teach the application of an intact and contiguous film, but rather the application of a fluid whereby a film is subsequently formed. Applicants' arguments, with respect to Sakai, are persuasive inasmuch as Sakai does not teach the step of applying an "intact contiguous film". The argument is not deemed persuasive with respect to the statements that Sakai only encapsulates the particles and does not generally lay down a layer. The spraying of the fluid to the surface that results in the particle encapsulation would similarly coat the substrate. At column 2, line 13 et seq. Sakai discloses:
  - \*\*\* comprising: cooling means for cooling a substrate to below zero; wet gas supply means for supply a gas containing atomized water to the surface of the substrate cooled by the cooling means to form ice on the surface of the substrate; and ice removing means for removing the ice formed on the surface of the substrate.
- 2. And column 3, line 24 discloses:

The apparatus includes an ice forming unit 10 for cooling a substrate W, \*\*\* and taking the substrate W having ice formed on its surface out of the ice forming unit 10...".

As to the argument, Sakai does not teach removing the ice with sonic energy. Rather Sakai blows the ice with high-pressure gas. At e.g. column 7, line 62 et seq. Sakai discloses:

The ice removing unit 20 may be constructed without the adoption of high pressure gas ejection. For example, the ice may be separated from the surface of the substrate W by applying ultrasonic waves and eliminated by the action of a centrifugal force resulting from the rotation of the substrate support 211. (Emphasis added)

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## Claim Rejections - 35 USC § 102—Withdrawn

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-12, 14-21, 23-33 were rejected under 35 U.S.C. 102(b) as being anticipated by United States Patent No. 5,857,474 to Sakai et al (Sakai). Applicants' amendments and arguments have overcome the rejection.

### Claim Rejections - 35 USC § 103--Withdrawn

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 13, 22, and 34 were rejected under 35 U.S.C. 103(a) as being unpatentable over Sakai as discussed above and United States Patent No. 4,491,484 to Williams. The rejection using Sakai has been withdrawn.

## Claim Rejections - 35 USC § 112

1. Claims 1-34 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claims contain subject matter that was not described in

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the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventors, at the time the application was filed, had possession of the claimed invention.

Specifically, the support for the newly added limitation "applying an intact and contiguous film" was not found in the currently pending application. The portion listed at page 4 line 5 does not disclose the application of an intact and contiguous film, but rather the formation of the same.

### Conclusion

- 3. The following art is considered relevant to the present invention, but is not currently believed to form the basis for a proper rejection. United States Patent No. 4,199,620 discloses forming a protective, strippable, elastomeric film on a highly reflective surface. According to the invention the coating "encapsulates dust and other particulates on the surface...[and]...the film may be stripped intact, removing the entrapped particulates and leaving no residue on the mirror surface." This invention uses evaporation for layer solidification, and does not use ultrasonic energy.
- 4. United States Patent No. 4,199,375 discloses dust and grease are removed from a surface by applying to the surface "a liquid composition" and the "applied composition forms a self supporting film upon drying. Thereafter, the film is stripped from the surface."
- 5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gentle E. Winter whose telephone number is (703) 305-3403. The examiner can normally be reached on Monday-Friday 7:00-3:30.

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6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Randy P. Gulakowski can be reached on (703) 308-4333. The fax phone numbers for

the organization where this application or proceeding is assigned are (703) 872-9310 for regular

communications and (703) 872-9311 for After Final communications. The direct fax number for

this examiner is (703) 746-7746.

7. Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is (703) 308-0661.

Gentle E. Winter Examiner

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Zeinab Elanini

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January 12, 2004

ZEINAB EL-ARINI PRIMARY EXAMINER